

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims

1. (Currently Amended) A method of setting up a session between first and second peer user terminals of a communication system, said session extending at least in part across a circuit switched access network, the method comprising the steps of:

~~transporting signalling to initiate said~~ establishing a packet switched session between ~~at least one of the peer user terminals and said communication system~~ via an ~~[[IP]] Internet Protocol, IP,~~ based packet switched access network using a call control protocol which is also used for setting up end-to-end packet switched sessions, ~~and subsequently establishing said session based upon said signaling;~~

associating the packet switched session with a circuit switched telephone number; and

setting up a circuit switched call between the peer user terminals in parallel with the packet switched session.

2. (Currently Amended) ~~[[A]] The~~ method according to claim 1, ~~wherein said session requires further comprising utilizing the circuit switched call to provide~~ one or more conversational bearers.

3. (Currently Amended) ~~[[A]] The~~ method according to claim 2, ~~wherein said session comprises further comprising utilizing the packet switched session to provide~~ non-conversational bearers established over said IP based packet switched network.

4. (Currently Amended) ~~[[A]] The~~ method according to claim 1 wherein, said at least one of the peer user terminals being is a dual mode mobile terminal capable of using both said packet switched and circuit switched access networks.

5. (Currently Amended) [[A]] The method according to claim 1, wherein the ~~signalling which initiates said session is~~ step of establishing a packet switched session includes utilizing the Session Initiation Protocol, SIP, ~~signalling exchanged between said~~ at least one of the peer user terminals and a SIP server of an IP Multimedia Core Network Subsystem (IMS).

6. (Currently Amended) [[A]] The method according to claim 5, wherein said SIP server notifies a gateway server when it receives a session initiation request which requires ~~the establishment of one or more~~ establishing at least one conversational bearers bearer, the gateway ~~terminating~~ setting up the circuit switched session call within the system.

7. (Currently Amended) [[A]] The method according to claim 6, wherein said SIP server and said gateway server are co-located.

8. (Currently Amended) [[A]] The method according to claim 6, wherein the gateway server provides interworking between the circuit switched ~~session on the one side,~~ call and the packet switched session ~~on the other side.~~

9. (Currently Amended) [[A]] The method according to claim 8, wherein following notification from the SIP server, the gateway server notifies said at least one of the peer user terminals of a callback telephone number, and the peer user terminal calls that number to ~~establish a~~ initiate the circuit switched session call with the gateway server.

10. (Currently Amended) [[A]] The method according to claim 9, ~~where the~~ notification wherein at least one peer user terminal is notified of the callback number is transferred via the SIP server.

11. (Currently Amended) [[A]] The method according to claim 10, wherein the gateway mapping server maps the established circuit switched session call to the SIP signalling packet switched session ~~on the basis of~~ based on the used callback number.

12. (Currently Amended) ~~[[A]]~~ The method according to claim 9, wherein~~[[,]]~~ the gateway ~~selecting~~ server selects the callback number from a pool of available callback numbers.

13. (Currently Amended) ~~[[A]]~~ The method according to claim 5, further comprising ~~wherein, the SIP server determining by the SIP server~~ that said session requires the establishment of setting up a circuit switched session call as a result of one or more of the following:

- properties of the system known to the SIP server;
- prior notification by ~~said~~ at least one of the peer user terminals;
- information contained in the SIP signalling initiating the session;
- properties defined for the peer user terminal;
- prior notification from a visited network ~~in the case of a roaming~~ if a peer user terminal is roaming; and
- prior notification from the ~~radio~~ packet switched access network used by the peer user terminal.

14. (Canceled)

15. (Currently Amended) A user terminal comprising:

- means for using a circuit switched access network~~and~~;
- means for using an ~~[[IP]]~~ Internet Protocol, IP, based packet switched access network~~[[,]]~~; and
- means for transferring signalling information, using a call control protocol which is also used for setting up end-to-end packet switched sessions, over the packet switched network to initiate in parallel, both a packet switched session over the packet switched network and a circuit switched call over the circuit switched network.

16. (Currently Amended) A Session Initiation Protocol server for use in an [[IP]] Internet Protocol, IP, Multimedia Core Network Subsystem, the server comprising:

means for receiving an INVITE request from a user terminal, over an IP based packet switched domain, initiating a packet switched session;

means for determining that ~~said~~ the packet switched session requires the setting up of ~~one or more~~ at least one circuit switched conversational ~~bearers~~ bearer ~~in the circuit switched domain~~; and

means for causing ~~said~~ the at least one conversational ~~bearer(s)~~ bearer to be ~~established~~ set up in parallel with the packet switched session.

17. (Currently Amended) A gateway server for providing an interface between a circuit switched access network and a packet switched network, the gateway server having an interface towards a Session Initiation Protocol, SIP, server of an [[IP]] Internet Protocol, IP, Multimedia Core Network Subsystem, ~~and~~ said gateway server comprising:

means for receiving from the SIP server, signalling instructing the ~~establishment~~ setting up of a ~~session~~ circuit switched call over the circuit switched access network with a user terminal; and

means for setting up the circuit switched call in parallel with a packet switched session.

18. (Currently Amended) The user terminal of claim 15, wherein the terminal is being a dual mode mobile terminal capable of using said packet switched and circuit switched ~~network~~ networks.

19. (Currently Amended) The user terminal of claim 15, further comprising:

means for receiving a call-back number from a gateway associated with said packet switched and circuit switched ~~network~~ networks; and

establishing means for setting up a circuit switched ~~session~~ call with said gateway by calling that call-back number.

20. (Currently Amended) The server of Claim 16₁ further comprising means for notifying a gateway server ~~when~~ upon determining that ~~one or more said~~ the at least one conversational ~~bearers~~ bearer in the circuit switched domain is required and causing said gateway server to provide a call-back number to said user terminal.

21. (Currently Amended) The gateway server of Claim 17₁ further comprising means for providing said user terminal with a call-back number for said user terminal to ~~establish~~ call to initiate a circuit switched ~~session~~ call with said gateway server by ~~calling that call-back number.~~